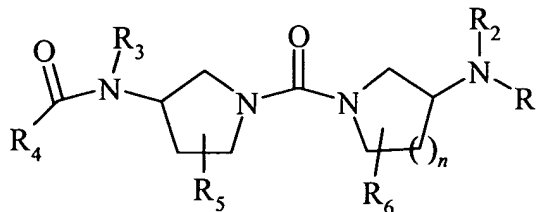


## CLAIMS

1. A compound having the following structure:



or a stereoisomer, prodrug or pharmaceutically acceptable salt thereof,  
wherein:

$n$  is 0 or 1;

$R_1$  is hydrogen, alkyl, substituted alkyl, arylalkyl, substituted arylalkyl, heterocyclealkyl, substituted heterocyclealkyl, heterocycle, or substituted heterocycle;

$R_2$  is hydrogen, alkyl, substituted alkyl,  $-C(O)R_7$ , or  $-S(O)_2R_8$ ; or

$R_1$  and  $R_2$  together with the nitrogen to which they are attached form a heterocycle, optionally substituted with one or more  $R_9$ ;

$R_3$  is hydrogen, alkyl, or substituted alkyl;

$R_4$  is alkyl, substituted alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycle, or substituted heterocycle;

$R_5$  is hydrogen, alkyl, or substituted alkyl;

$R_6$  is hydrogen, alkyl, or substituted alkyl;

$R_7$  is hydrogen, alkyl, substituted alkyl, hydroxy, alkoxy, aryl, substituted aryl, heterocycle, or substituted heterocycle;

$R_8$  is hydrogen, alkyl, substituted alkyl; and

$R_9$  is alkyl, substituted alkyl, aryl, substituted aryl, hydroxy, or alkoxy.

2. The compound of claim 1 wherein  $n$  is 0.

3. The compound of claim 1 wherein  $n$  is 1.

4. The compound of claim 1 wherein  $R_1$  is hydrogen, alkyl, substituted alkyl, arylalkyl, substituted arylalkyl, heterocyclealkyl, substituted heterocyclealkyl, heterocycle or substituted heterocycle.

5. The compound of claim 1 wherein R<sub>4</sub> is substituted alkyl, substituted aryl, substituted heteroaryl, or substituted heterocycle.

6. The compound of claim 2 wherein R<sub>1</sub> is hydrogen, alkyl, substituted alkyl, arylalkyl, substituted arylalkyl, heterocyclealkyl, substituted heterocyclealkyl, heterocycle or substituted heterocycle.

7. The compound of claim 2 wherein R<sub>4</sub> is substituted alkyl, substituted aryl, substituted heteroaryl, or substituted heterocycle.

8. The compound of claim 3 wherein R<sub>1</sub> is hydrogen, alkyl, substituted alkyl, arylalkyl, substituted arylalkyl, heterocyclealkyl, substituted heterocyclealkyl, heterocycle or substituted heterocycle.

9. The compound of claim 8 wherein R<sub>2</sub> is hydrogen, alkyl or substituted alkyl.

10. The compound of claim 3 wherein R<sub>1</sub> and R<sub>2</sub> together with the nitrogen to which they are attached form a heterocycle, optionally substituted with one or more substituent selected from the group consisting of alkyl, substituted alkyl, aryl, substituted aryl, hydroxy and alkoxy.

11. The compound of claim 3 wherein R<sub>4</sub> is substituted alkyl, substituted aryl, substituted heteroaryl, or substituted heterocycle.

12. The compound of claim 9 wherein R<sub>4</sub> is substituted alkyl, substituted aryl, substituted heteroaryl, or substituted heterocycle.

13. The compound of claim 12 wherein R<sub>3</sub>, R<sub>5</sub> and R<sub>6</sub> are the same or different and independently hydrogen, alkyl or substituted alkyl.

14. The compound of claim 13 wherein R<sub>5</sub> and R<sub>6</sub> are each hydrogen.

15. The compound of claim 14 wherein R<sub>3</sub> is lower alkyl.

16. The compound of claim 15 wherein R<sub>3</sub> is methyl.
17. The compound of claim 15 wherein R<sub>4</sub> is substituted heteroaryl.
18. The compound of claim 17 wherein R<sub>4</sub> is substituted thienyl.
19. The compound of claim 18 wherein R<sub>4</sub> is 2-[5-(4-ethylphenyl)thienyl], 2-[5-(4-trifluoromethylphenyl)thienyl], 2-[5-(4-trifluoromethoxyphenyl)thienyl], 2-[5-(2-methyl-4-methoxyphenyl)thienyl], 2-[5-(2-trifluoromethyl-4-chlorophenyl)thienyl], 2-[5-(4-methylphenyl)thienyl], 2-(5-phenylthienyl), 2-[5-(4-methoxyphenyl)thienyl], 2-[5-(3-fluoro-4-methoxyphenyl)thienyl], 2-[5-(6-1,4-benzodioxanyl)thienyl], 2-[5-(4-ethoxyphenyl)thienyl], 2-[5-(3-fluoro-4-methylphenyl)thienyl], 2-[5-(2,4-dimethylphenyl)thienyl] or 2-[5-(4-isopropylphenyl)thienyl].
20. The compound of any of the claims 17-19 wherein R<sub>2</sub> is hydrogen, alkyl or substituted alkyl.
21. The compound of claim 20 wherein R<sub>2</sub> is hydrogen, methyl and ethyl.
22. The compound of claim 21 wherein R<sub>1</sub> is hydrogen.
23. The compound of claim 20 wherein R<sub>1</sub> is cyclic alkyl or substituted cyclic alkyl.
24. The compound of claim 23 wherein R<sub>1</sub> is cyclobutyl, cyclopentyl, cyclohexyl, 4-methylcyclohexyl, 4,4-dimethylcyclohexyl, 4-trifluoromethylcyclohexyl, 2-ethylcyclohexyl, 3,4-dimethylcyclohexyl or cycloheptyl.
25. The compound of claim 21 wherein R<sub>1</sub> is heterocycle or substituted heterocycle.
26. The compound of claim 25 wherein R<sub>1</sub> is 4-tetrahydropyranyl or 4-(1-benzylpiperidinyl).

27. The compound of claim 20 wherein R<sub>1</sub> is heterocyclealkyl or substituted heterocyclealkyl.

28. The compound of claim 27 wherein R<sub>1</sub> is 4-tetrahydropyranylmethyl, 2-tetrahydrofuranylmethyl, 2-(3-tetrahydrofuranyl)ethyl, 2-(4-tetrahydropyranyl)ethyl, 2-(2-1,3-dioxolanyl)ethyl, 2-(2-1,3-dioxanyl)ethyl or 3-tetrahydrofuranylmethyl.

29. The compound of claim 20 wherein R<sub>1</sub> is alkyl or substituted alkyl.

30. The compound of claim 29 wherein R<sub>1</sub> is methyl, ethyl, isopropyl, 3-methylbutyl, 2-butyl, 3-butyl, cyclopropylmethyl, 1-(1-cyclobutyl)ethyl, 2-(1-cyclohexyl)propyl, 2-(3-methyl)butyl, 1-(2-methyl)propyl, 3-cyclopentylpropyl or 3-cyclohexylpropyl.

31. The compound of claim 29 wherein R<sub>1</sub> is alkyl substituted by alkoxy, aryl, alkylsulfonyl, alkylamino, hydroxy or arylsulfonyl.

32. The compound of claim 31 wherein R<sub>1</sub> is 3-methoxypropyl, 2-methoxyethyl, 2-methylsulfonyl, 2-(1-methoxyethyl), 2-isopropoxyethyl, benzyl or 1-[1-(4-methoxyphenyl)ethyl].

33. The compound of any of the claims 17-19 wherein R<sub>1</sub> and R<sub>2</sub> together with the nitrogen to which they are attached form a heterocycle, optionally substituted by alkyl or aryl.

34. The compound of claim 33 wherein R<sub>1</sub> and R<sub>2</sub> together with the nitrogen to which they are attached form piperidinyl, pyrrolidinyl, homopiperidinyl, 4-phenylpiperidinyl, 4-propylpiperidinyl, 4-methylpiperidinyl, 2,6-dimethylmorpholinyl, 3-hydroxypyrrolidinyl and 4-hydroxypiperidinyl.

35. The compound of claim 15 wherein R<sub>4</sub> is substituted phenyl.

36. The compound of claim 35 wherein R<sub>4</sub> is phenyl substituted with aryl or substituted aryl.

37. The compound of claim 36 wherein R<sub>4</sub> is 4-phenylphenyl, 4-(2-methyl-4-methoxyphenyl)phenyl, 4-(4-ethylphenyl)phenyl, 4-(4-methylphenyl)phenyl, 2-fluoro-4-(4-methoxyphenyl)phenyl, 2-fluoro-4-(4-methyl phenyl)phenyl, 2-fluoro-4-(2-fluoro-4-methylphenyl)phenyl, 2-fluoro-4-(4-chlorophenyl)phenyl, (4-methoxyphenyl)phenyl or 2-fluoro-4-(4-trifluoromethoxyphenyl)phenyl.

38. The compound of any of the claims 35-37 wherein R<sub>2</sub> is hydrogen, alkyl or substituted alkyl.

39. The compound of any of the claims 35-37 wherein R<sub>2</sub> is hydrogen, methyl or ethyl.

40. The compound of claim 39 wherein R<sub>1</sub> is hydrogen.

41. The compound of claim 39 wherein R<sub>1</sub> is cyclic alkyl or substituted cyclic alkyl.

42. The compound of claim 41 wherein R<sub>1</sub> is cyclobutyl, cyclopentyl, cyclohexyl, 4,4-dimethylcyclohexyl or cycloheptyl.

43. The compound of claim 39 wherein R<sub>1</sub> is heterocycle or substituted heterocycle.

44. The compound of claim 43 wherein R<sub>1</sub> is 4-tetrahydropyranyl or 4-(1-benzylpiperidinyl).

45. The compound of claim 39 wherein R<sub>1</sub> is heterocyclealkyl or substituted heterocyclealkyl.

46. The compound of claim 45 wherein R<sub>1</sub> is 4-tetrahydropyranylmethyl, 2-(3-tetrahydrofuranyl)ethyl, 2-(4-tetrahydropyranyl)ethyl, 2-(2-1,3-dioxolanyl)ethyl, 2-(2-1,3-dioxanyl)ethyl, 2-tetrahydrofuranylmethyl or 3-tetrahydrofuranylmethyl.

47. The compound of claim 39 wherein R<sub>1</sub> is alkyl or substituted alkyl.

48. The compound of claim 47 wherein R<sub>1</sub> is methyl, ethyl, isopropyl, 3-methylbutyl, 2-butyl, 3-butyl, cyclopropylmethyl, 1-(1-cyclobutyl)ethyl, 2-(1-cyclohexyl)propyl, 2-(3-methyl)butyl, 1-(2-methyl)propyl, 3-cyclopentylpropyl or 3-cyclohexylpropyl.

49. The compound of claim 47 wherein R<sub>1</sub> is alkyl substituted alkoxy, alkylsulfonyl, alkylamino or hydroxy.

50. The compound of claim 49 wherein R<sub>1</sub> is 3-methoxypropyl, 2-methoxyethyl, 1-(1-methoxyethyl), 2-isopropoxyethyl or 2-N,N-dimethylaminoethyl.

51. The compound of any of claims 35-37 wherein R<sub>1</sub> and R<sub>2</sub> together with the nitrogen to which they are attached form a heterocycle, optionally substituted by alkyl or aryl.

52. The compound of claim 51 wherein R<sub>1</sub> and R<sub>2</sub> together with the nitrogen to which they are attached form piperidiny, homopiperidiny or 4-phenylpiperidiny.

53. The compound of claim 15 wherein R<sub>4</sub> is substituted cyclohexyl.

54. The compound of claim 53 wherein R<sub>4</sub> is cyclohexyl substituted by aryl or substituted aryl.

55. The compound of claim 54 wherein R<sub>4</sub> is 4-chlorophenylcyclohexyl.

56. The compound of any of the claims 53-55 wherein R<sub>1</sub> and R<sub>2</sub> are the same or different and independently hydrogen or methyl.

57. A composition comprising a compound of claim 1 in combination with a pharmaceutically acceptable carrier or diluent.

58. A method for antagonizing melanin concentrating hormone in a subject in need thereof, comprising administering to the subject an effective amount of a compound of claim 1 or a composition of claim 57.

59. A method for treating obesity in a subject in need thereof, comprising administering to the subject an effective amount of a compound of claim 1 or a composition of claim 57.

60. A method for treating anxiety and/or depression in a subject in need thereof, comprising administering to the subject an effective amount of a compound of claim 1 or a composition of claim 57.

61. A method for treating digestive disorder in a subject in need thereof, comprising administering to the subject an effective amount of a compound of claim 1 or a composition of claim 57.

62. A method for treating fertility or sexual function disorder in a subject in need thereof, comprising administering to the subject an effective amount of a compound of claim 1 or a composition of claim 57.

63. A method for treating urinary disorder in a subject in need thereof, comprising administering to the subject an effective amount of a compound of claim 1 or a composition of claim 57.